Accelerated Nethod for Determining the Mineral Type of Clay 132-1-14/15

THE RESIDENCE OF THE PROPERTY OF THE PARTY O

ASSOCIATION: Trest "Mosbassuglegeologiya"

AVAILABLE: Library of Congress

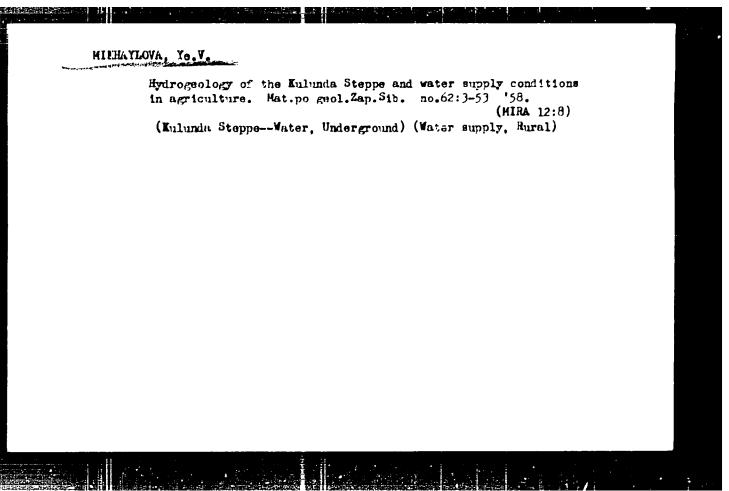
Card 2/2

BEYRON, S.G.; MICHAYLOVA, Ye.V.

the control of the profit of the control of the con

Genozoic underground waters in the southern part of the West Siberian Plain [with summary in English]. Sov. geol. 1 no.3: 112-119 Mr 158.

1. Zapadne-Sibirakoye geologicheskoye upravleniye. (West Siberian Plain-Water, Underground)



ENTHOM, S.G.; MIRHATIOVA, Ye.V.; SELTAKOV, S.H.

Zoning the Enlunda Steppe for land improvement purposes. Trudy Biol. inst. Sib. otd. AM SSSR no.415-17 159. (MIRA 13:10)

(Enlunda Steppe—Soils)

(Eulunda Steppe—Irrigation)

14(5) SOV/132-59-9-11/13

AUTHOR: Mikhaylova, Ye.V.

TITLE: The Results of Checking the Quality of Drilling

Operations in the Moscow Brown Coal Basin

PERIODICAL: Razvedka i okrana nedr, 1959, Nr 9, p 54 (USSR)

ABSTRACT: The author finds that the work of drilling brigation

in the Moscow brown coal basin has considerably improved. She compared the calculations made by these brigades with practical results obtained in different mines of the region. It was found that the difference between the assessment of the importance of coal beds by the brigades and the final results of exploitation of these beds was less than 0.1%. I.P. Sharapov and V.S. Ogarkov were mentioned by the author. There are

3 tables.

ASSOCIATION: Tul'skaya geologicheskaya partiya (The Tula Geological

Party)

Card 1/1

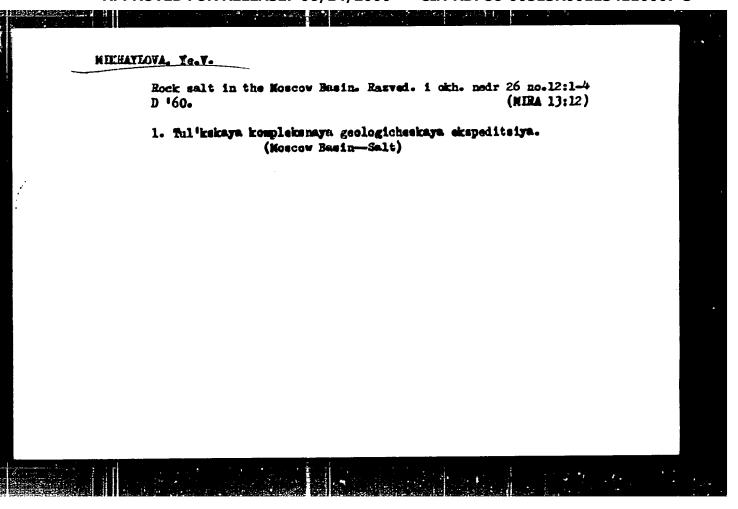
PARTICIPATION OF THE PROPERTY OF THE PARTY O

BETROM, S.G.; HIKHATLOVA, Ye.V.

Ground waters in the southeastern part of the West Siberian Plain. Geol. i geofis. no.2:74-86 '60. (MIRA 13:9)

1. Transportno-energeticheskiy institut Sibirskogo otdeleniya AN SSSR.

(West Sibertan Plain--Water, Underground)



BEYROM, S.G.; MIKHAYLOVA, Ye.V.; NIKOL*SKAYA, Yu.F.

Formation of drainage and chemical composition of undergrand waters in Olirocene deposits in the Irtysh artesian basin. Jeol.1 geofiz. no.7:43-54 */1. (MIRA 14:9)

1. Transportno-energeticheskiy institut Sibirskopo otdeleniya AN SSSR, Novosihirsk. (Siberia, Western--Water, Underground)

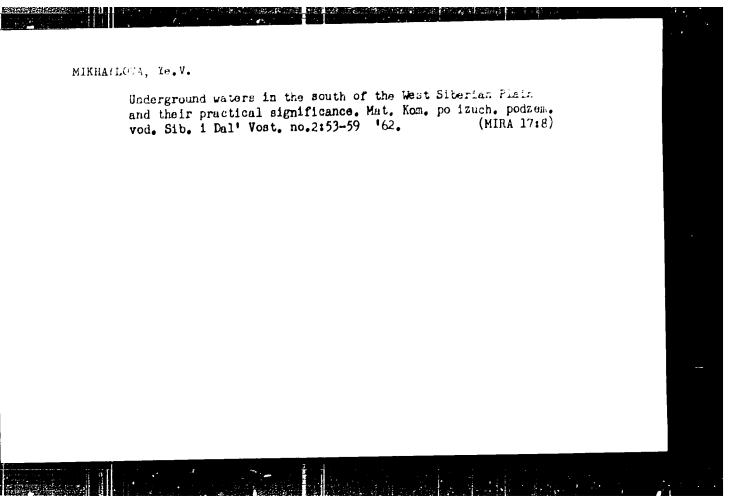
MIKHAYLOVA, Ye.V.

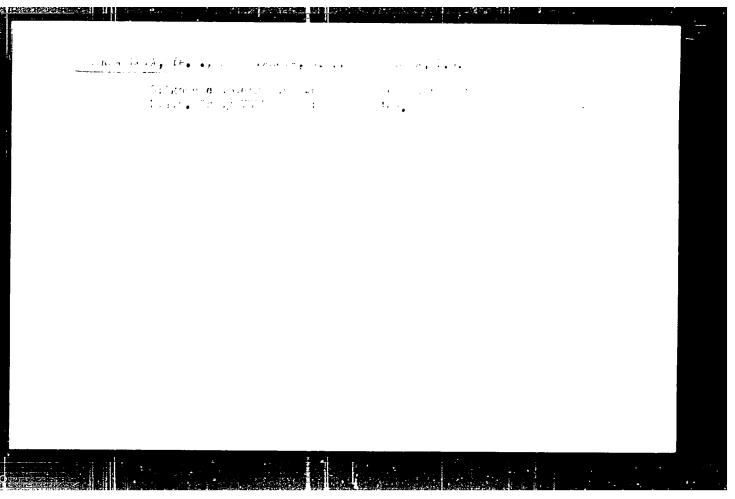
Walnut forests of Central Asia and silvicultural measures for their regeneration. Trudy TashGU no.137:216-223 '61.

(MIRA 15:3)

1. Nauchno-issledovatel'skiy institut lesnogo khozyaystva Uzbekskoy Akademii sal'akokhozyaystvennykh nauk.

(Soviet Central Asia--Walnut)





MTKHAYLOVA, Yu. M. Cand. Med. Sci.

Dissertation: "The Influence of the Decomposition Products of Diphtnerial Bacteria, Staphylococci and Streptocci on the Activity of the Dyphterial Bacterium and its Toxin." Moscow Medical Inst., Ministry of Health RSFSR., 23 Jun 47.

SO: Vechernyaya Moskwa, Jun, 1947 (Project #17836)

MIKHAYLOVA, Yu.M.

Experimental study on the effect of microbial autolysate on the activity of Corynebacterium diphtheriae and toxin; author's abstract. Zhur.mikrobiol.. epid. 1 immun. 27 no.8:47-48 Ag '56. (HLRA 9:10)

1. Is kafedry mikrobiologii Ryazanskogo meditsinskogo instituta.
(QCRYMERACTERIUM DIPHYHERIAE,
autolysates, eff. on exper. C. diphtheriae & C.
diphtheriae toxin infect. (Rus))

USSR / Microbiology. Microbes Pathogonic to Man and F-5 Animals. Bacteria. Bacteria of the Intestinal Group.

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72137.

Author : Mikhaylova, Yu. M.

Inst : Not given.

Title : Characteristics of Widel's Reaction in Patients

With Typhoid and Paratyphoid Illnosses Treated

with Synthomycin and Levomycetin.

Orig Pub: Antibiotiki, 1957, 2, No 1, 58-59.

Abstract: The author thinks that, contrary to data in the

literature on the problem of the influence of Synthomycin and Levomycotin treatment on 'lidal's reaction, it depends on the use of verious methods of treatment. The given investigation was conducted with strict determination of the treat-

Caid 1/2

MITHATLOVA, Yu.H.

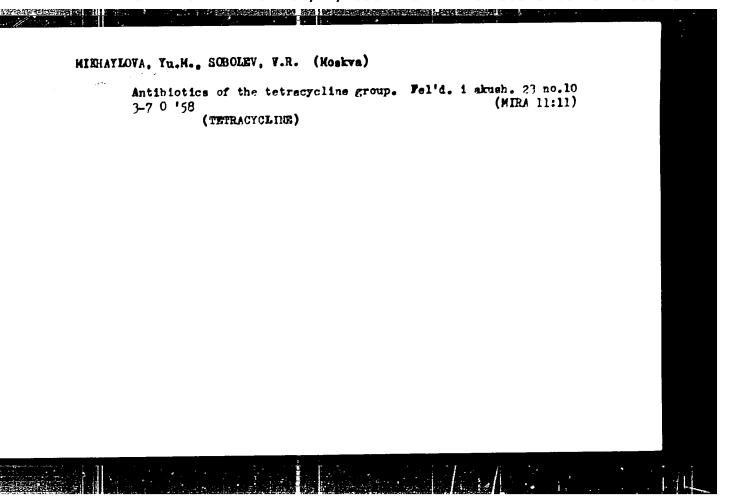
Treating typhoid fever with antibiotics. Antibiotiki 3 no.4:114

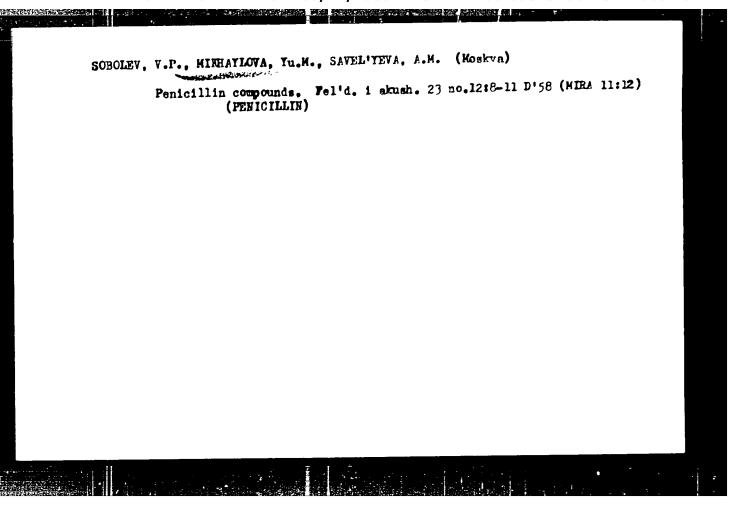
J1-Ag '58 (MIRA 11:10)

1. Kafedra infektaioonykh bolezney (zav. - prof. K.V. Bunin)
I Moskovskogo ordena Lenina meditainskogo instituta i Infektrionnaya
bol'nitsa g. Ulan-Bator, Mongol'skaya Narodnaya Respublika.

(TYPHOID FEVER)

(ANTIBIOTICS)





MICHAYLOVA, Yu.M., SPIVAK, Yu.M.

Effect of synthomycin on complement titer in typhoid fever patients and in immunized rabbits; author's abstract. Zhur.mikrobiol.epid.

i immun. 29 no.7:133-134 Jl '58 (MIRA 11:8)

1. Iz kafedry infektsionnykh bolesney 1-go Koskovskogo ordena Lenina meditsinskogo instituta.

(CHLORAMPHEICOL, effects.

on typhoid fever complement titer in infected patients & immunized rabbits (Rus))

(TYPHOID FEVER, immunology,

complement titer in infected patients & immunized rabbits, eff. of chloremphenicol (Rus))

MIKHAYLOVA, Yu.M.

Effect of levomycetin, chlortetracycline and tetracycline on the complement activity and antibody concentration in experimental conditions. Antibiotiki 5 no.4:72-74 Jl-Ag '60. (MI:A 13:9)

1. Kafedra infektsionnykh bolezney (zav. - prof. K.V. Bunin) I
Moskovskogo ordena Lenina meditsinskogo institute imeni I.M. Sechenova.

(ANTIBIOTICS) (ANTIGENS AND ANTIBODIES)

(COMPLEMENT FIXATION)

KAHANOVA, Ye.A.; MORDVINOVA, N.B.; KUZNETSOVA, N.S.; MINDLINA, R.S.; BOTVINNIKOVA, M.Ye.; MIKHAYLOVA, Yu.M.

Result of the use use of luminescent sera in the diagnosis of dysentery and colienteritis. Zhur.mikrobiol.epid.i immun. 31 30-35 N 60. (MIRA 14:6)

1. Iz Instituta epdiemiologii i mikrobiologii imeni Gamalei AMN SSSR, 12-y gorodskoy detskoy infektsionnoy bol'nitsy i I Moskov-skogo meditsinskogo instituta.

(DYSENTERY) (ESCHERICHIA COLI) (SERUM)

BULKINA, I.G.; BUNIN, K.V., prof.; KUZNETSOV, V.S.; MIKHAYLOVA, YU.M.;

NOVAKOVSKAYA, A.A.; POKROVSKIY, V.I.; POLUHORDVINOVA, Ye.D.; SEDLOVETS,

M.P.; STARSHIKOVA, V.S.TSEYDLER, S.A.; SHKHVATSABAYA, T.V.; YAKHON—

TOVA, N.K.; SHERESHEVSKAYA, Ye.F., red.; ZUYEVA, N.K., tekhn. red.

[Pocket manual for the specialist in infectious diseases; clinical aspects, diagnosis, and treatment] Karmannyi spravochnik infektsionista; klinika, diagnostika, lechenie. Moskva, Gos. izd-vo med. lit-ry Medgiz, 1961. 233 p. (MIRA 14:7) (COMMUNICABLE DISEASES) (MEDICINE—HANDBOOKS, MANUAIS, ETC.)

POKROVSKIY, V.I.; MIKHAYLOVA, Yu.M.

Effect of antibiotic allergy on Widal reaction titers. Antibiotiki 6 no.2:138-141 F '61. (MIRA 14:9)

1. Klinika infektsionnykh bolezney (zav. - prof. K.V.Bunin) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(TYPHOID FEVER)

(ANTIBIOTICS)

MIKHAILOVA, Yu.M. (Moskva)

Leicocyte picture in patients with toxic infection caused by salmonellosis. Klin.med. no.7:74-77 '61. (MIRA 14:8)

1. Iz kafedry infektsionnykh bolezney (zav. - prof. K.V. Bunin) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(SALMONELLA)

(LEUCOCYTES)

Effectiveness of antibiotic and sulfanilamide treatment of food toxicoinfectons of salmonella origin. Sov. mod. 25 no.7:131-133 Jl '61;

1. Iz kafedry infektsionnoy boleznoy 1-go Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova (zav. - prof. K.V.Bunin) i 1-y Moskovskoy infektsionnoy gorodskoy klinicheskoy bol'nitsy (glavnyy vrach N.G.Zelsekvor); (SULFANILAMIDES) (SALMONELLA) (FOOD POISONING)

MEL'NIK, Yo.G.; MIKHAYLOVA, Yu.M.

Clinical and laboratory parallels in food toxicoinfections caused by Salmonella. Zhur.mikrobiol., epid. i immun. 32 no.10:122-127 0 '61. (MIKA 14:10)

1. Iz kliniki infektsionnykh bolezney I Moskovskogo ordena Lenina meditsinskogo instituta i I-y infektsionnoy gorodskoy bol'nitsy.

(FOOD POISONING) (SAIMONELIA)

MIKHAYLOVA, Yu M.; VEBER, P.N.; BURGOVA, M.A.

Outbreak of food poisoning caused by B.Breslau. Zhur.mikrobiol., epid. i immum. 32 no.10:127-128 0 '61. (MIRA 14:10)

1. Iz I Moskovskogo ordena Lenina meditsinskogo instituta im. Sechenova. (FOOD POISONING)

MIKHATLOVA, Yu.M.; MEL'NIK, Ye.G.; STARSHINOVA, V.S. (Moskva)

Clinical laboratory characteristics of an outbreak of toxic food infection caused by Salmonella broslau. Klin.med. no.3: (MIRA 15:3)

85-87 '62. (MIRA 15:3)

1. Iz kafedry infektsionnykh bolezney (zav. - prof. K.V. humin) I Moskovuhogo ordena Lenina meditsinakogo instituta imeni I.M. Sechenova. (SALMONELLA) (FOOD POISONING)

MIKHAYLOVA, Yu.M.; BUBLIKOVA, R.D.

Late results of Widal's reaction in those recovering from typhoid and paratyphoid diseases following treatment with antibiotics.

Antibiotiki 7 no.8:761-764 Ag '62. (MIRA 15:9)

1. Kafedra infektsionnykh bolezney (zav. - prof. K.V.Bunin) I Moskovskogo orden Lenina meditsinskogo instituta imeni I.M. Sechenova.

(TYPHOID FEVER-DIAGNOSIS-AGGLUTINATION REACTION)(PARATYPHOID FEVER)
(ANTIBIOTICS)

BUNIN, K.V., prof.; MIKHAYLOVA, Yu.M.

Clinicodiagnostic parallels in food poisoning of salmonellal etiology and acute dysentery. Sov. med. 26 no.4:47-51 Ap 163. (MIRA 17:2)

1. Iz kliniki infektsionnykh bolezney (zav. - prof. K.V. Bunin) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova na baze Moskovskoy infektsionnoy gorodskoy klinicheskoy bolinitsy No.7 (glavnyy vrach N.G. Zaleskver).

MEL'NIK, Ye.G.; MIKHAYLOVA, Yu.M.

Bacterial excretion in food potaoning of salmonellae ethology.

Zhur. mikrobiol., epid. i immun. AO no.6:45.48 Je '63.

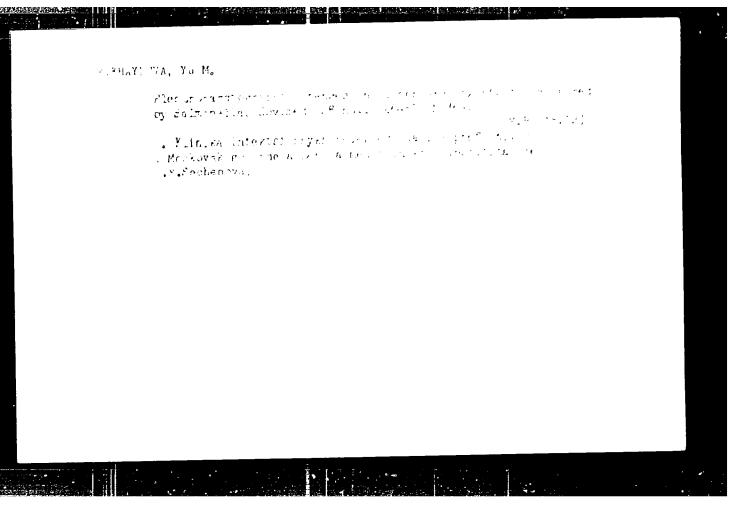
(MIRA limilate Mira limin Section orders lection meditatission institute immin Sectionova i Moskovax by infector mony kilosobasay bol'nitay ffo.l.

MIKRAYLOVA, Yu.M.; VISSARIONOVA, W.Ya.

Therapeutic effect of purified properdin in experimental salmonella infections. Pat. fiziol. 1 eksp. terap. 9 no.1:54-65

Ja-F '65. (MIRA 18:11)

1. Kafedra infektsionnykh bolezney I Moskovskogo ordena Lonina meditsinskogo instituta (zav. - prof. K.V. Bunin) i laboratorii fraktsionirovaniya belkov krovi (zav. - prof. G.Ya. Rozenberg) TSentralinogo ordena Lenina instituta gematologii i perelivaniya krovi (direktor - dotsent A.Ye. Kiselev).



ROTENBERG, C.Ya.; VISSARIONOVA, V.Ya.; MIKHAYLOVA, Yu.M.; : Alf 3H, N.D.; CHERNYAK, V.Ya.

Isolation of properdin from bovine blood serum and study of its properties. Biul. eksp. biol. i med. 60 no.11:45-48 N 165.

(MIRA 19:1)

1. Laboratoriya fraktsionirovaniya belkov krovi zar. - prof.

G.Ya. Rozenberg) TSentral'nogo ordena lenina instituta gemutologii i perelivaniya krovi (direktor - dotsent A.Ye. Kiselev i kafedra infektsionnykh bolezney (zar. - prof. K.I. Junin I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

Submitted (ctober 11, 1963.

ACC NRI	AP6029868	(A,A)	SOURCE CODE:	UR/0399/66/000/008/0059/00
AUTHOR:	Krasil'niko	va, A. H.; Mikha	aylova, Yu. M.; Fro	om, A. A.; Sirotenko, A. V.
(Infekt Disease Banner	sionnaya goro s/headed by P of Labor Medi	dskaya kliniches Prof. K. V. Bunis Ical Institute is	skaya bol'nitsa no. n/I Moscow Order of m. I. M. Sechenov (ef Physician N. O. Zalesk e 7); Department of Infectio Lenin and Order of the Red 7 Moskovskiy meditainskiy logy and Blood Transfusion/ gematologii i perelivaniya
TITLE:	Treating foo	od poisoning wit	h Polosukhin fluid	and polyvinylpyrrolidone
SOURCE:	Sovetskaya	meditsina, no.	8, 1966, 59-63	
TOPIC T	AGS: food po ve system die	oisioning, disea sease	se treatment, drug	effect, digestive drug
ABSTRAC		coulden fluid.	administered intrav	collapse were treated venously in 300—500 ml salt solution and
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	_		UDC: _616.9-	022.38-039:616.3-008.1)-085.

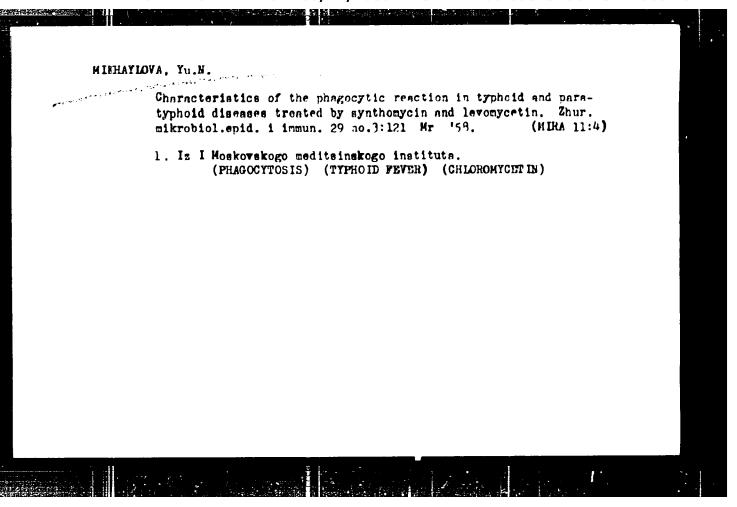
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MIKhAYLOVA, Yu.M.; VISSARICNOVA, J. Yn.

Nonspecific immunity in alimentary toxinfections of Ca.zene.la.
etiology. Zhur. mikrebiol., epid. i immun. 43 no. 1:70-73
Ja *66.

(MIRA 19:1)

1. I Moskovskiy ordena lenina meditsinskiy institut: TSentral'nyy
ordena Lenina institut gematologii i perelivaniya krovi. Submitted January 11, 1965.



3(0) SOV/20-123-6-34/50 Anan'yev, A. R., Mikhaylova, Yu. V.___ AUTHORS: The Age of the Lower Part of the Minusinsk Series in Connection TITLE: With the Discovery of Lepidodendropsis hirmeri Lutz in the Samokhval'skaya Suite (O vozraste otlozheniy nizhney chasti Minusinskoy serii v svyazi s otkrytiyem Lepidodendropsis hirmeri Lutz v Samokhval'skoy svite) Doklady Akademii nauk SSSR, 1958, Vol 123, Nr 6, PERIODICAL: pp 1081 - 1084 (USSR) The Minusinsk Series (former suite, up to 1800 m thick) of ABSTRACT: the precoal-bearing Lower Carbonifs: ous is nowadays divided into 10 suites. Of these, the 3 lowest were assigned to the Tournaisian Stage, while the 3 higher lying suites, from Samokhval'skaya on, were put to the Upper Mississippian Stage (Ref 2). The lowest suite, the Bystryanskaya suite,

> Nadaltayskaya and Samokhval'skaya suites actually belong to the Lower Mississippian. This is proved by new paleontolo-

belongs to the Upper Devonian as far as its lowest part is concerned, while its upper part, together with the Altayskaya,

gical data of the authors as well as by the expeditions Card '/3

The Age of the Lower Part of the Minusinsk Series in SOV/20-123-6-34/50 Connection With the Discovery of Lepidodendropsis himseri Lutz in the Samokhval'skaya Suite

lead by M. I. Grayser. The boundary between the Upper Devonian and the Lower Carboniferous in the Minusinsk depressions is therefore to be drawn within the Bystryanskaya suite, according to the change of the flora. By this means, the notations: Bystryanskaya Mass I and II of the first investigators are re-established. The common occurrence of Cyclostigma and Lepidodendron in the Samokhval'skaya suite remained puzzling until recently and prevented an accurate age determination of this suite (Refs 8,10,20,21). The new discoveries of the authors, including the plant species mentioned in the title removed this obstacle: in reality, neither Lepidodendron nor Cyclostigma have been found here. The plant that was indentified by earlier investigators as Lepidodendron, is in the opinion of the authors Sublepidodendron (Nath.) Hirner and belongs to another species of Sublepidodendroceae (Ref 18). Many errors in identification originate in the different state of preservation of the bark of the very same plant species. Thus, L.hirmeri has several synonyms (Refs 3,4,13,14)(Ref 20). Neodendron Chachl. and

Card 2/3

The Age of the Lower Part of the Minusinsk Series in 507, 20-123-6-34, 50 Connection With the Discovery of Lepidodendropsis hirmeri Lutz in the Samokhval'skaya Suite

> Eremiodendron Chachl. (Refs 8,9) are combined by the authors under the name Caulopteris ogurensis (Schmalh.)comb.nov... The Lepidodendropsis species belong to a flora which has a narrow stratigraphic range: from the upper part of the Upper Devonian to the lowermost part of the Lower Carboniferous (Ref 16). To the numerous evidences of a pre-Upper Mississippian age of Lepidoderdropsis, still more are added (Refs 6,22). Sublepidoderdron distans and Caulopteris ogurensis also indicate a pre-Upper Mississippian age for toe Samokhval'skaya flora (Refs 11, 12). There are 2 figures and 20 references, 10 of which are Soviet.

ASSOCIATION:

Tomskiy gosudarstvennyy universitet im. V. V. Kuybysheva (Tomsk State University imeni V. V. Kuybysłev)

July 18, 1958, by N. S. Shitskiy, Academician

PRESENTED:

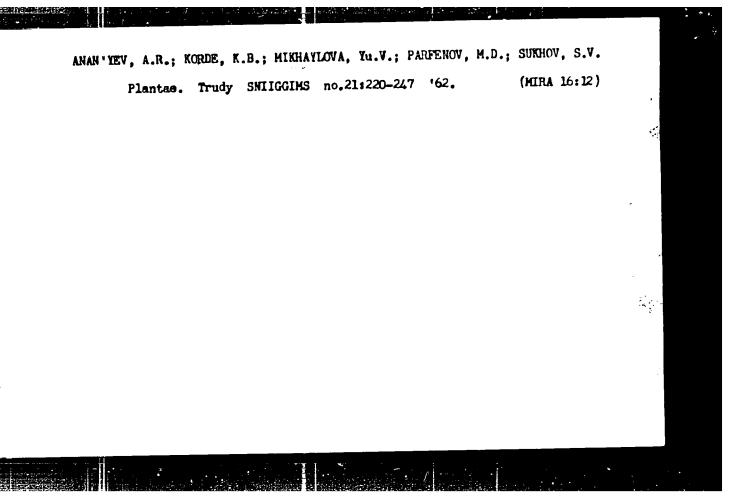
SUBMITTED: July 16, 1958

Card 3/3

BORODINA, M.L.; GOMOZOVA, V.G.; MIKHATLOVA, Yu.V.; ZOLUTUKHINA, A.N.

Bffect of nuclei used in the production of titanium dioxide on its pigmentary properties. Lakokras. mat. i ikh. prim. (MIRA 16:7)

161. (Titanium oxide) (Pigments)



APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134110007-3"

UR/0056/66/051/006/1880/1892 SOURCE CODE: ACC NR: A17003230 AUTHOR: Mikhaylova, Yu. V.; Maksimov, L. A. OFG: Moscow Physicotechnical Institute (Moskovskiy fiziko-tekhnicheskiy institut) TITLE: Influence of the electric field on the transport coefficients of polar gases SOURCE: Zh eksper i teor fiz, v. 51, no. 6, 1966, 1880-1892 TOPIC TAGS: kinetic equation, transport phenomenon, scattering cross section, temperature dependence, gas viscosity ABSTRACT: The article deals with a kinetic equation of a gas made up of polar molecules of the symmetrical-top type or of polar diatomic molecules in the presence of a constant electric field. The kinetic equation is solved under the assumption that the polarization can be neglected and that the electric field can affect only the precession of the angular momentum. The kinetic equation is solved by a method described by one of the authors elsewhere (Maksimov, with Yu. Kagan, ZhETF v. 51, 1893, 1966 [Acc. AP7003231] and earlier). In view of lack of experimental data on the scattering cross sections of polyatomic molecules, the results are interpreted only for a few simple gas models. The heat conduction and viscosity tensors are determined and attention is called to the possible occurrence of viscous stresses in a gas

Gorelik and Yu. M. Kagan for interest in the work. Orig. art. has: 59 formulas. SUB CODE: 20/ SUBM DATE: 05Jul66/ ORIG REF: 003/ OTH REF: 009

in which a temperature gradient is produced. The similarity between the effect of an electric field and that of a magnetic field are discussed. The authors thank L. L.

Card 1/1

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Q

: Ref Zhur - Bibl. N 15, 1958, 69345 Abs Jur

: Zakharyan, G.P., Mik.ay. ya. Z.F., Davtya., G.G. Aithor

: Armenia Scientific Research Institute f Ani./.. I. st

Hesbandry and Veterinary Medici e

: Tigestibility of Feeds Treated with Carride Oline by T:tle

Sheep

: Byuil. .huchn -tekh.. i.f r... Arm. ..-i. in-to zhiv tre-Crig Put

vodstvo i veterilorii, 1957, N° 1, 17-20

: The digestibility of rations on thinking dry atraw (first Abstract

> stage) and straw treated with a suspension of markide sline (sec and stage) was determined in wethers. The c efficients of dijestibility according to stages were: 1.y .ntter 63.8 and 3.2%, cell dise 49.3 and 68.3%,

extractive substances without litrogen 68.7 and 15.7%.

Card 1/1

- 42 -

Abs Jour : Ref Zhur - Biol., No 11, 1958, No 50009

: Geresinyen E.A., Mikhe love Z.F. Atti.her

: Armonica Scientific Reserrer institute of Ani.: 1 Husbandry

APPROVED FÖR RELEASE: 106/14/2000 /EDOFORTRELEASE: 106/14/2000 CIA-RDP86-00513R001134110007-1

Title

the Food Digustibility in Lectating Cows.

Orig Pub : Tr. Ar. . n-,i. in-tr zhivotnovodstvr i veterinarii, 1957,

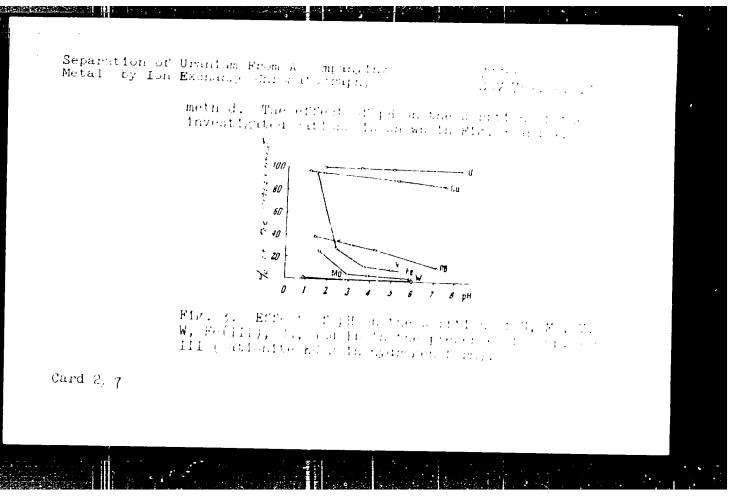
2, 153-154

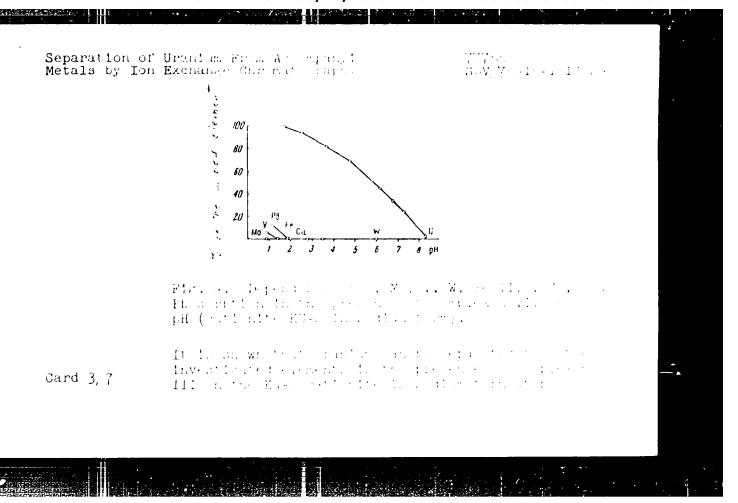
Abstract : One group of cows received a diet consisting of 90 percent of

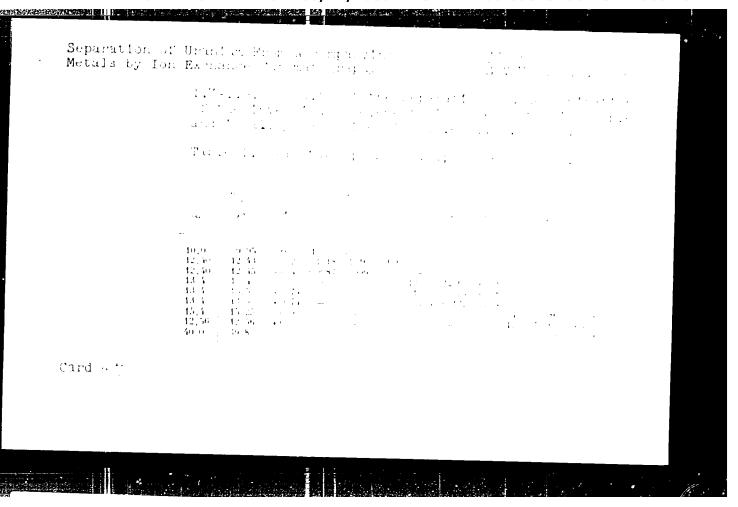
gress and 10 percent of concentrates, and another group received 70 percent, 20 percent, and 10 percent re pectively of cotton plant peclings. The protein content was the same in all rations. Discrtibility of the first diet was higher with respect of errenic substances by 5.39 percent, with respect to proteins by 6.55 percent, and with respect to

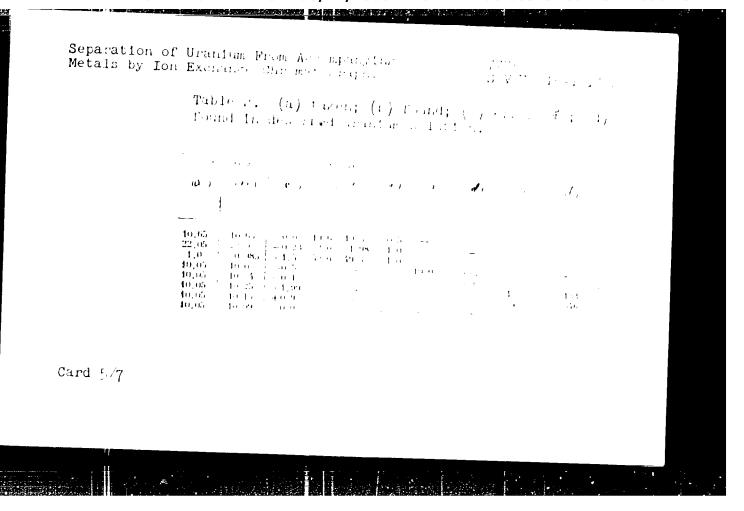
callulo o by 7.53 percent.

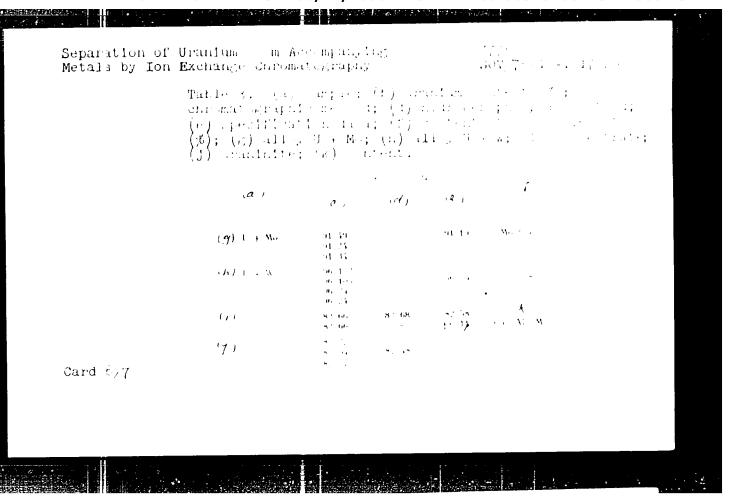
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Separation of Exchange Chromat what a matter than the present of the invent batted elements in the present of the invent batted and the invent batted and

MIRHAYLOVA, Z.M.; MIRSKIY. R.V.; YARUSHEINA, A.A.

Determination of bivalent and trivalent iron in difficultly decomposed rocks. Zhur. anal.khim. 18 no.7:856-858 J1 '63. (MIRA 16:11)

1. Kuybyshevskiy nauchno-issledovatel skiy institut neftyanoy promyshlennosti.

MIKHAYLOVA, Z.M.; MIRSKIY, R.V.; YARUSHKINA, A.A.

Determination of the forms of iron in difficultly decomposable rocks containing pyrites. Zav.lsb. 30 no.4:407-408 '64. (MIRA 17:4)

1. Kuybysherskiy gosudarstvennyy nauchno-issledovatel'skiy institut neftyanoy promyshlennosti.

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MIKINYLOVA, Z.M. (Cand. of Med. Sci.); PEVZHER, N.S.;

"Method of Identifying Microbes That Respond the Antibiotics,"

p. 232 Ministry of Health USSR Proceedings of the Second All-Union Conference on Antibiotics, 31 May-9 June 1957. p. 405, Moscow, Medgiz, 1957.

MINHATLOVA, Z.M.

Results of cultivating homolytic strentococcum from scarlet favor patients under various conditions of hospitalization and penicillin therapy, Pediatria 40 ac.1:22-27 Ja '57. (MIRA 10:10)

1. Is infektsionnogo otdels (zev. - chlen-korrespondent AMM SSSR sealushennyy daystel' nauki orof. A.I.Dobrokhotova) Instituta pediatrii AMN SSSR (dir. - prof. O.D.Sokolova-Penessreva)

(STREPTOCOCCUS) (SCARLET FEVER) (PENICILLIM)

MASHKOV, A.V., MIKHAYLOVA, Z.M.

Simple method for obtaining an agglutinogen from whosping cough cultures during the fire phase. Lab.delo 4 no.3:37-40 My-Jo'58 (MRA 11:5)

1. Iz otdela ontrykh detskikh infektsiy (zav. - prof. A.I. Dobrokhotova [deceased]) Instituta mediatrii AMM SSSR, Moskva. (WHOOPING COUGH)

(ANTIOENS AND ANTIBODIES)

DERECHINSKAYA, Sh.L.; MIRHAYLOVA, Z.M.

Treatment of scarlatina in children with chronic tonsillitis [with summary in English]. Pediatriia 36 no.2:16-23 F '59.

1. Is otdela ostrykh detskikh infektsiy (sav. - chlen-korrespondent AMN SSSR prof. A.I. Dobrokhotova [deceased]) Instituta pediatrii AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. O.D. Sokolova-Ponomareva) na base 2-y detskoy klinicheskoy bol'nitay ineni I.V.
Rusakova (glavnyy vrach - zaslushennyy vrach ESYSR dots. V.A. Krushkov).

(SCARLET FEVER, ther.

in child. with chronic tonsillitis (Rus))

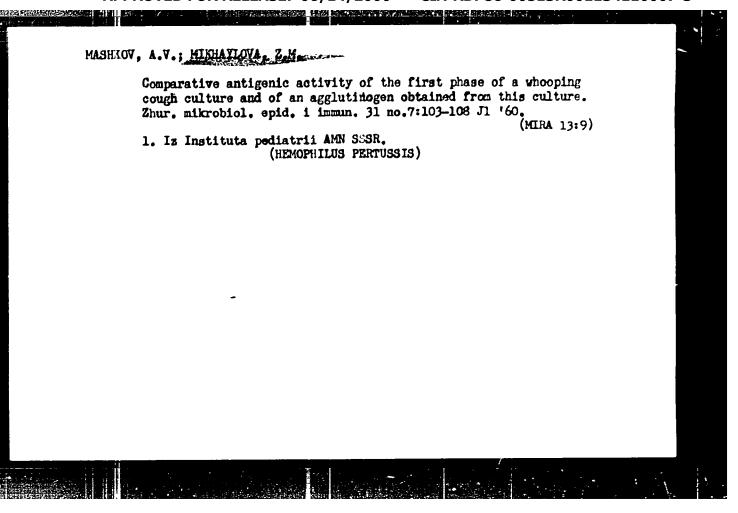
(TONSILLITIS, compl.

scarlet fever ther. in child. with chronic tonsillitis (Rus))

MIKHATHOVA, Z.M.; DYADYUNOVA, I.V.

Changes in immunological and allergic reactivity during the course of the whooping cough infective processes. Zhur. mikrobiol. epid. 1 immun. 31 no. 5:7-12 My '60. (MIRA 13:10)

1. Iz Instituta padiatrii AMN SSSR. (WHOOPING COUGH)



MASHKOV, A.V.; MIKHAYLOVA, Z.M.

Comparative study of the sensitizing properties of first-phase pertussis culture and of the agglutinogen obtained from it. Zhur. mikrobiol.epid.i immun. 31 no.8:129-131 Ag 160. (MIRA 14:6)

1. Iz Instituta pediatrii AMN SSSR. (WHOOPING COUGH)

Method of determining the properdin in human serum by the zymosan method. Zhur.mikrobiol.epid.i immun. 33 no.5:103-108 ky '62.

1. Iz Instituta pediatrii AMN SSSR.

(PROPERDIN) (ZYMOSAN)

MIKHAYLOVA, Z.M.

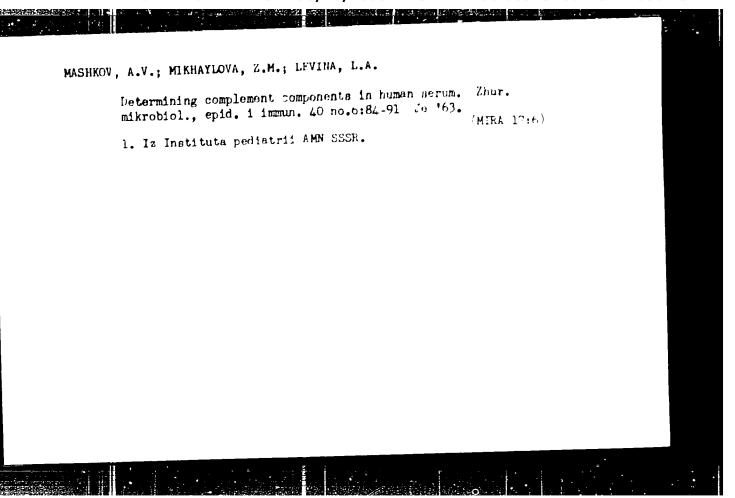
Correlation between the indices of specific and nonspecific immunity in whooping cough. Zhur. mikrobiol., epid. i immun. 33 no.11:126-131 N '62. (MIRA 17:1)

1. Iz Instituta pediatrii AMN SSSR.

MIKHAYLOVA, Z.M.

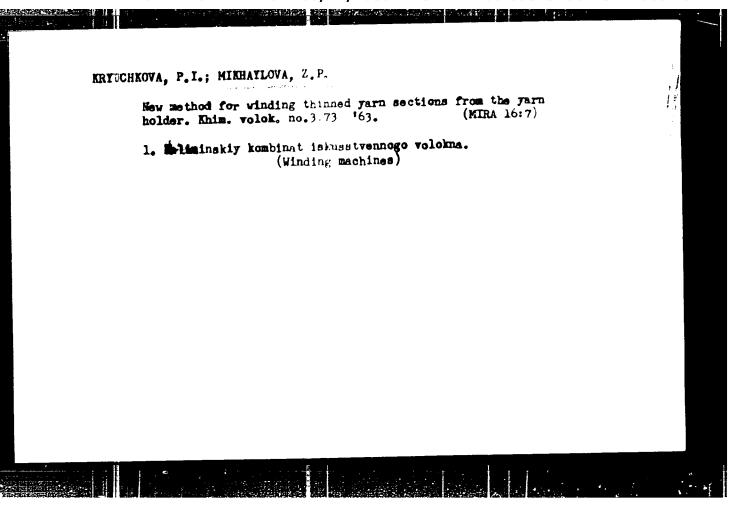
Dynamics of the content of properdin in some acute infections in children. Zhur. mikrobiol., epid. i immun. 40 no.3:122-123 Mr '63. (MIRA 17:2)

1. Iz Instituta pediatrii AMN SSSR.



Hecent data on the upper Carboniferous of the Chernyshev
Ridge. Dokl.AN SSSR 145 no.31631-634 J. '62. (Mita 15:7)

1. Institut geologii Komi filiala AN SSSR. Predstalveno akademikom
A.L.Yanahinym.
(Chernyshev Ridge—Geology, Stratigraphic)



MIKH YLOVA, Z.P.; SMIRNOVA, N.B.

Simplified method of bobbin feeding in doffing. Khim. volok. no.3:67(MIRA 18:7)
68 '65.

1. Klinskiy kombinat iskusatvennogo i sinteticheskogo volokna.

S/191/60/000/002/008/012 B027/B058

AUTHORS:

Li. P. Z., Mikhaylova, Z. V., Sedov, L. N., Eksanov, V. A.

TITLE:

Laminated Plastics on the Basis of Glass Fiber. Communication V. Contact Method for the Forming of Large

Products From Polyester Glass Plastics

PERIODICAL: Plasticheskiye massy, 1960, No. 2, pp. 29-35

TEXT: The authors describe contact forming of large products from polyester glass plastics as the simplest and most economic method, since hardening of unsaturated polyester resins is possible by addition of certain admixtures at room temperature. Molds from metal or glass plastic are test suited for the process; positive molds produce a smooth inner surface and negative ones a smooth outer surface; there are also multiple-part molds to facilitate the removal of complicate shape products; electrically heated molds are also used sometimes. In order to facilitate removal of the products from the molds, various separating agents are used, such as films from certain polymers (polyamide film TK-4 (PK-4)), most frequently, however, alcoholic-aqueous solutions of polyvinyl alcohol,

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Laminated Plastics or the Basis of Glass S/191/60/000/002/008/012 Fiber. Communication V. Contact Method for B027/B058 the Forming of Large Products From Polyester Glass Plastics

but also mastic and pastes on wax- or paraffin basis. Various decorative coatings from regin with hardeners are applied to the mold by sprayer or brush. After the conting has gelatinized, the shredded glass fiber and resin with hardeners are attached by spraying machine or spray gun. When using glass fabric or glass mats, resin with hardener and accelerator as well as glass filler are laid in layers and each layer is rolled. The processing time for the resin of the type NH -1 (PN-1) with active material and accelerator amounts to 40 to 90 min; inert fillers in powder form are sometimes admixed to increase viscosity and hardness. For the contact method, various types of glass fabrics may be used, which must previously be cut to shape, a larger edge having to remain, which facilitates removal from the mold. The glass fabric cut to shape is connected in the form of butt joints which must be covered by the next layer. Best durability of the products is obtained with a content of 40 to 50% polyethylene resin in glass plastic and 60 to 70% in glass mats. Smaller products are removed from the mold by hand and larger ones by machine, and undergo machine finishing. If a product consists of several parts, the best way of assembly is the simultaneous use of glued and mechanical joints. Subsequent

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Laminated Plastics on the Basis of Glass S/191/60/000/002/008/012 Fiber. Communication V. Contact Method for B027/B058 The Forming of Large Products From Polyester Glass Plastics

repair work is easy; it is sufficient to polish the defect with emery paper and to apply some layers of resin-saturated glass mat or glass fabric. When working with polyethylene resins, it must be considered that their evaporation leads to irritation of mucous membrane and thus a sufficient ventilation of the rooms is absolutely necessary; rubber gloves or skin-protecting cream are required. These resins are also inflammable so that fire extinguishing equipment should be available in the plant. Due to danger of explosion, hydrogen perceide and the accelerator must in all cases be added to the resin separatily. There are 8 figures, 4 tables, and 54 references: 1 Soviet, 24 German, 1 Swedish, 1 Japanese, 17 US, 2 British, 1 French, 3 Czechoslovakian, and 4 Polish.

Card 5/3

87653

15 8340

2109 2209

8/191/60/000/003/002/013

B016/B054

AUTHORS:

Li, P. Z., Mikhaylova, Z. V., Sedov, L. N., Kaganova, Ye.L.

TITLE:

Laminated Plastics on the Basis of Glass Fiber. Report 6. Effect of the Degree of Polycondensation of Polyester Resins and of the Concentration of Terminal Groups on the

Properties of Resins and Glass-reinforced Plastics

PERIODICAL:

Plasticheskiye massy, 1960, No. 3, pp. 9-12

TEXI: The authors report on their studies of the effect of the degree of polycondensation and acidity of polydiethylene glycol maleinate phthalate (3: 2: 1) on some properties of the solid solution of this resin in styrene NH-1 (PN-1), as well as on the properties of glass-reinforced plastics when using this resin as a binder. The authors had conducted the synthesis of the resin, and had published it earlier together with indices (Refs. 1,2). They found that polyester resins of different polycondensation degrees (acid number 20-100 mg KOH/g) in the presence of industrial isopropyl benzene hydrogen peroxide (3%) and HK (NK) accelerator (8%) gelatinize faster with increasing molecular

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CIA-RDP86-00513R001134110007-3" **APPROVED FOR RELEASE: 06/14/2000**

Laminated Plastics on the Basis of Glass S/191/60/000/003/002/013 Fiber. Report 6. Effect of the Degree of B016/B054 Polycondensation of Polyester Resins and of the Concentration of Terminal Groups on the Properties of Resins and Glass-reinforced Plastics

weight and decreasing acidity. This phenomenon was ascribed to: 1) extension of macromolecules of the unsaturated polyester increases the probability of copolymerization with styrene; 2) increased acidity inhicits the dissociation of the hydrogen peroxide; the free carboxyl groups of the polyester have a deactivating effect; 3) possible isomerization of maleic to fumaric acid (Ref.5). The authors keep on studying this problem. Simultaneously with the acceleration of gelatinization, the polyesters solidify to a higher degree, and their hardness and resistance to water increase. Further, it is shown that the mechanical strength of resins increases with increasing molecular weight of the initial polymer. This effect also prevails in T-1 (T-1) glass-reinforced polyester plastics. Tensile strength and resistance to static bending are practically independent of the degree of acidity and polycondensation of the binding resin. It is noted that the dielectric properties of glass-reinforced plastics depend chiefly on water absorption. tan & for specimens with tinding resins of an acid number of 70 mg KOH/g is much larger than with resins of 43.3 and 28 mg KOH/g. Card 2/3

Laminated Plastics on the Basis of Glass Fiber. 3/191/60/000/003/002/013 Report 6. Effect of the Degree of Polycondensa- B016/B054 tion of Polyester Resins and of the Concentration of Terminal Groups on the Properties of Resins and Glass-reinforced Plastics

The bending strength of glass-reinforced plastics decreases in water. The concentration of the terminal groups of the binder has its main influence when the specimen is immersed into water. The authors' results confirm the correctness of their choice of the final acid numbers (20-45 mg KOH/g) for resins used in the production of glass-reinforced plastics. There are 6 figures, 3 tables, and 6 references: 2 Soviet, 1 German, 1 US, and 2 British.

Card 3/3

87922

15 8340 1209 g/191/60/000/004,003/015 BO16/B058

AUTHORS:

Li, P. Z., Mikhaylova, Z. V., Sedov, L. N.

Petrilenkova, Ye. B., Libina. S. L.

TITLE:

Laminated Glass-reinforced Plastics. Report VIII. A Polyester

Binding Agent for Glass-reinforced Plastics

PERIODICAL:

Plasticheskiye massy, 1960, No. 4, pp. 9-12

TEXT: The authors describe polypentaerythrite dichlorohydrin maleinate phthalate (PDP), which was synthetized for the first time. It was the purpose of the study to widen the raw-material basis of polyvalent alcohols for the synthesis of unsaturated polyester resins by using polypontaerythrite. In contrast with the inadequate methods known, the authors proved that unsaturated polyesters with higher fire resistance can be synthetized by using a chlorine-containing alcohol component. For the polycondensation they used pentaerythrite dichlorohydrin (PED), which is formed by saponification of the reaction product of pentaerythrite and thionyl chloride in the presence of pyridine. PDP was synthetized from PED by adding maleic acid and phthalic anhydride (molar ratio 1.0: 0.5: 0.5) in

Card 1/3

CIA-RDP86-00513R001134110007-3" **APPROVED FOR RELEASE: 06/14/2000**

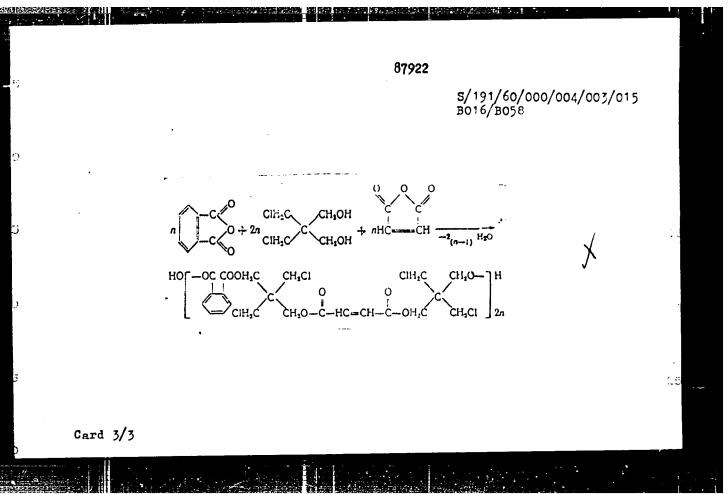
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Laminated Glass-reinforced Plastics. Report VIII. A Polyester Binding Agent for Glass-reinforced Plastics S/191/60/000/004/003/013 B016/B058

the inert gas at 170-190°C (see scheme). The resin yield was 80 to 92% of the total content of all components. After solidification, PDP mixed with 1/5 styrene gives a product that is difficultly combustible and stops with 1/5 styrene gives a product that is difficultly combustible and stops with 1/5 styrene gives a product that is difficultly combustible and stops weight of burning after removal of the flame. The product from 70 parts by weight of pDP and 30 units of styrene is still less combustible. PDP may be mixed PDP and 30 units of styrene is still less combustible. PDP may be mixed with methyl methacrylate at any proportion, and its solution in styrene with methyl methacrylate at any proportion. Its solutions are gelatinized at room temperature within three hours in the presence of 6% inopropy ed at room temperature within three hours in the presence of 3% methyl-ethyl ketone per occurs within 15 minutes in the presence of 3% methyl-ethyl ketone per oxide and 3% NK. From PDP and glass fabric T₁ (T₁), the authors produced oxide and 3% NK. From PDP and glass fabric T₁ (T₁), the surface oxide and 3% NK.

samples of self-extinguishing glass textolite, which are superior to the product from styrene resin NH-1 (PN-1) with respect to their most important mechanical and insulation properties. The authors prepared a test sample mechanical and insulation properties. The authors prepared a test sample of higher transparency from PDP and glued glass mat. Papers by G. S. of higher transparency from PDP and glued glass mat. Papers by G. S. Petrov, K. A. Andrianov, and S. I. Dzhenchellskaya (Ref. 7), as well as Petrov, K. A. Andrianov, and S. I. Dzhenchellskaya (Ref. 7).

Card 2/3



s/191/60/000/008/002/014 B004/B056

15.8109 2109,2209

AUTHORS:

Li, P. Z., Mikhaylova, Z. V., Sedov, L. N.

TITLE:

Laminated Plastics on the Basis of Fiber Glass. Report XI.

The Influence of the Content of Monomers Upon the Properties of Unsaturated Polyester Resins and Glass Plastics With

Polyester Binders

PERIODICAL:

Plasticheskiye massy, 1960, No. 8, pp. 7-16

TEXT: The authors investigated the influence exerted by the content of monomers upon the properties of unsaturated polyester resins. According to Refs. 8-10, the following resins were synthesized (Table 1): polyethylene glycol maleate (1), polyethylene glycol maleate dipinate (2), polyethylene glycol maleate phthalate (3a and 3b), polyethylene glycol maleate dipinate (5), and polypentaerythrite dichlorohydrin maleate dipinate (5), and polypentaerythrite dichlorohydrin maleate phthalate (6). These polyesters were dissolved in styrene or triethylene glycol dimethacrylate of the type TTM-3 (TGM-3). They were gelatinized at 20°C in the presence of isopropyl benzene hydroperoxide and HK(NK) accelerators. The following Card 1/4

Laminated Plastics on the Basis of Fiber Glass. 3/191/60/000/008/002/014
Report XI. The Influence of the Content of B004/B056
Monomers Upon the Properties of Unsaturated
Polyester Resins and Glass Plastics With
Polyester Binders

results are given: The specific gravity as a function of the concentration at 2000 is no linear function (Fig. 1); on the other hand, it decreases linearly with increasing temperature (Fig. 2). Viscosity at 25°C (Figs.3-5) does not obey the equation by Frenkel' (Ref. 11), but the equation log $\eta = a$ - blogt (Fig. 6) ($\eta = viscosity$ in centipoise; t = temperaturein °C; a, b = constants). For 67% solutions in styrene the following equation is given: $\eta \approx a/t^2$. The authors discuss the data published on the hardening of polyester resins and arrive at the conclusion that the copolymerization of polyester with styrene must be considered to be the main process. They investigated the rate of gelatinization (Fig. 7) which has a minimum at 25-28% of styrene and a maximum at 32-43% of styrene, the dependence of the specific gravity of the hardened resin (Fig. 8) and of the shrinkage (Fig. 9) of the content of monomers. Shrinkage of the styrene copolymer was proportional to the styrene content only between 15-20 and 45-50%, whereas the resins containing TGM-3 showed a low shrinkage that was proportional to its content. In order to determine the

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Laminsted Plastics on the Basis of Fiber Glass. 5/191/60/000/008/002/014
Report XI. The Influence of the Content of 3004/B056
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optimum styrene content, the authors determined the thermal stability according to Vicat (Fig. 10), the hardness by means of I. F. Kanavet's press (Fig. 11), and the extractability by means of acetone (Fig. 12), while the water adsorption (Fig. 13) was determined as a function of the styrene content: Table 2, comparison between the optimum styrene content in solutions of polyester resins with the styrene quantity which is equivalent to the content of double bonds of the polyester:

Styrene content in % by weight:	Polyester: 1	2	3a	3b	4	5	6	V
Equivalent to the double bonds	Polyester: 1 34.3	30.2	25.2	23.5	24.8	17.0	16.7	1/
Optimum on the basis of the			l .			1		
thermal stability	32.5	30.0	50.0	26.0	44.0	40.0	40.0	
Optimum on the basis of the						30.5	**************************************	
Brinell hardness	1	37.5	37.5	5 7.5	57.5	37. 5	31.5	
Optimum of the basis of extractio	n	,,	,,,,		40	40	40	
by means of acetone	-	30	51.5	-	40	40	40	

Card 3/4

Polyester Binders

Laminated Plastics on the Basis of Fiber Glass. 3/191/60/000/008/002/014
Report XI. The Influence of the Content of B004/B056
Monomers Upon the Properties of Unsaturated
Polyester Resins and Glass Plastics With
Polyester Binders

The mechanical strength as a function of the styrene content was letermined for (3) and (6) (compression strength, Fig. 14; bending strength, Fig. 15). The maxima at 38% styrene apply also to glass textolite (Figs. 16 and 17). Table 3 lists the insulating properties of glass textolites, which also show maxima at 38% styrene (tan δ = 0.014, lisruptive voltage 17.9 kv/mm). As the properties of glass plastics depend on saturation, the type ΠΗ-2 (PN-2) is recommended among the types of resin leveloped at the NIIPM (Scientific Research Institute of Plastics), which has a centipoise of about 7000 for saturation under pressure and at increased temperature, and the types ΠΗ-1 (PN-1), ΠΗ-3 (PN-3), and ΠΗ-4 (PN-4) (maximum of 1000 centipoise) for saturation at room temperature. L. 3. Nikitina and Ye. B. Petrilenkova, both undergraduate students of MITKHT (Moscow Institute of Fine Chemical Technology) took part in the synthesis. There are 17 figures, 3 tables, and 19 references: 5 Soviet, 2 US, 3 British, 1 Czechoslovakian, 5 German, and 2 Japanese.

Card 4/4

\$/131/60/000/209/023/010 B013/B055

AUTHORS:

计多数字符名包含图书**图图**

Iskra, Ye. V., Shtaykhman, G. A., Li, P. Z., Mikhaylova, Z.V.,

Sedov, L. N., Al'shits, I. M., Kats, L. F., Papysheva, Ye.V.,

Eksanov, V. A.

TITLE:

Glass Fiber Laminates 12. Dyeing of Polyester Glass

reinforced Plastics

PERIODICAL: Plasticheskiye massy, 1960, No. 9, pp. 11 - 1]

TEXT: The present work deals with the dyeing of glass-reinforced polyester plastics and the dyes used for this purpose. The investigation showed that polyester resins may be colored satisfactorily with azor, anthraquinone-, and triphenyl-methane dyes, phthalocyanine pigments, and others. The results obtained with several vat dyes and direct dyes were unsatisfactory. Inorganic pigments and dyes gave less brilliant hues than organic colorants. The results of the investigation showed that most dyes retard the gelling process. This retardation, however, is comparatively insignificant so that the properties of the hardened resin are hordly affected. To obtain well-colored products, the resin is generally applied

Card 1/2

Glass Fiber Laminates 12. Lyeing of Poly- S/191/60/106/01/01/01 ester Glass-reinforced Plastics 8013/8055

in two thin layers, a coat thickness of 0.4 - 0.7 mm being advission. practical use, structural glass-reinforced plastics are often exposed. sunlight. This necessitates the use of specially light-fast dyes. The color stability of samples was tested both in the laboratory under a ΠΡΝ-4 (PRK-4) quartz lamp and in open air, on roofs in Leningrad and Moscow. The following facts were established: 1) Polyester resins turn yellowish under sunlight. This is particularly noticeable with the lighter shades. 2) Inorganic pigments are the most light-fast Direct introduction of the dye or pigment is the most expedient way of dyeing, but cannot be repeated. It is often the case, however, that the color of some structural part dyed in this manner must be renewed owing to damage or fading. This can only be done by applying enamel or cil paint. Sime recipes for decorative units are given According to destination. structural glass-reinforced plastics may be exposed to salt water, petroleum products, mineral oils, alkaline, and acid media. The coloring of plastics was stable for 4500 h in sea water, 3 h in boiling water, 3000 h in mineral oil, 24 h in 10% H2SO4, and 24 h in 2% NacH There are

5 tables and 5 non-Soviet references

Card 2/2

8/1-11/60/2001011 203/016 BO13/B054

15.8109

AUTHORE:

Li, P. Z., Mikhaylova, L. V., Sedov, L. M. Kaganova, Ye. L.

Gefter, Ye. L.

TITLE:

Laminated Plastics on Glass Fiber Basis. Report 13. A New Binder on the Basis of Unsaturated Polyester Resine With

Addition of an Organophosphorus Compound

PERIODICAL:

Plasticheskiye massy, 1960, No. 11, pp. 9 - 10

TEXT: The authors studied the possibility of producing incombustible resins with the use of dichloro-diethyl ester of vinyl phosphinic acid (DE). Dichloro-diethyl ester was synthesized by Ye. L. Gefter. Experiments with the use of DE with usual resins gave no satisfactory results. Its use with chlorine-containing polyester resins is much more promising. The effect of organcphosphorus admixtures on the properties of chlorine-containing resin is shown in Table 1. Hence, it appears that with addition of small DE amounts the properties of resin remain practically unchanged except for the gelation rate. Some physicomechanical properties of glass-reinforced

Card '/2

Laminated Plastics on Glass Fiber Basis. Report 13. A New Binder on the Basis of Unsaturated Polyester Resins With Addition of an Organophosphorus Compound S/191/60/000/011/003/016 B013/B054

plastics from chlorine-containing polyester resin, with and without DE addition, are given in Table 2. The refractoriness of samples of glass-reinforced plastics was tested by exposing the sample to an open flame for a definite time, and - after removal of the flame - determining the duration of independent burning and glowing of the sample, as well as the loss in weight (Table 3). Combustibility of glass-reinforced plastics was little reduced by the addition of DE to the general-purpose resin of the type NH-1 (PN-1). On the other hand, an introduction of small DE amounts into chlorine-containing resin, which is only slowly extinguished after removal of the flame, warrants the production of hardly combustible glass reinforced plastics. There are 1 figure, 3 tables, and 3 references:

1 Soviet, 1 US, and 1 British.

Card 2/2

LASKINA, Ye.D.; SIMANOVSKAYA, E.A.; HELOV, V.N.; BYCHKOVA, Z.N.;
SHILINA, R.F.; YEMEL'YANENKO, Z.T.; MIKHAYLOVA, Z.V.

Intermediate products of the synthesis of odorous substances.
Report No.10: Preparation of guaiacol, guäthol, veratrole, and codisthoxybenzene from pyrocatechin. Trudy VNIISNDV no.5:25-30 (MIRA 14:10)

(Piperonal)

5/081/62/000/021/049/069 B162/B101

AUTHORS:

Li, P. Z., Mikhaylova, Z. V., Sedov, L. N.

TITLE:

Unsaturated polyester resins

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 21, 1962, 449, abstract 21P18 (Vest. tekhn. i ekon. inform. N.-i. in-t tekh.-ekon. issled. Gos. kom-ta Sov. Min. SSSR po khimii, no. 11, 1961, 51-60)

TEXT: Synopsis. Synthesis, properties, the methods of curing of polyester resins and also the properties of cured unsaturated polyester resins are described. 55 references. [Abstracter's note: Complete translation.]

Card 1/1

21/19 8/191/61/000/012/003/007 B101/B110

15 8100

AUTHORS. Li, P. Z., Mikhaylova, Z. V., Sedov, L. N., Kostygov, Y. A.

TITLE:

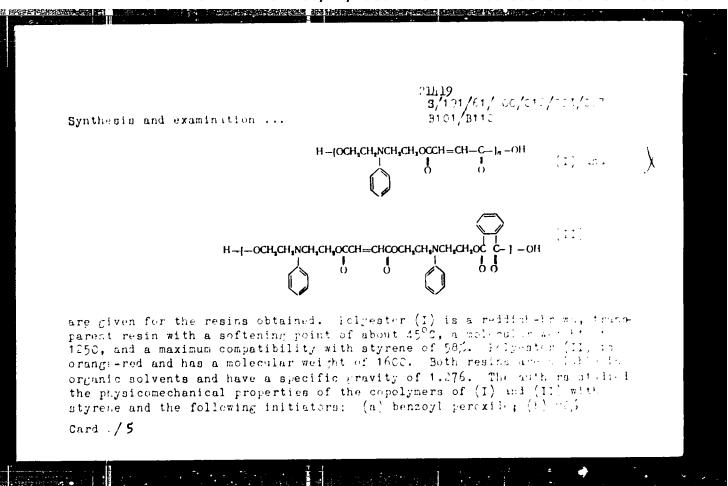
Synthesis and examination of unsaturated N-bis- β -hydroxy-ethyl

aniline polyester resins

PERIODICAL: Plasticheskiye massy, no. 12, 1961, 11-14

TEXT: This paper deals with the synthesis and examination of unsuturated polyester resins whose water resistance was increased by aromatic components. N-bis- β -hydroxy-ethyl aniline (diethanol aniline) was used as initial substance. The synthesis was conducted by esterification of commercial diethanol aniline (melting point: $57-55^{\circ}$ C) with making or maleic + phthalic acids. The compounds were fused at $175 \pm 2^{\circ}$ in a CO atmosphere. The reaction course was observed by determining the fill number. After 35-45 min, the compounds were cooled down to 17-11-7, 0.02% of hydroquinone was added as stabilizer, and they were cool in the man to room temperature. Reaction time was 3-5 hr, and the yield approximately 95%. Structures

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Synthesis and examination

isograppl henzene hydrogeroxide; (a) out solution of methyl-ethyl ketone peroxide in dimethal phthalate; (i) isograph benzene halr per x.le + HK (NK) accelerator containing approximately 0.7% Co; (e) methylecthyl ketone peroxide + NK. Initiators (a)-(c) were used at 100° C, combinations (d) and (e) at 20°C. Table 4 gives physicomechanical lata for the resins obtained. The authors found: (1) Synthesis is almost 50% shower than with diethylene glycol; (.) compatibility with styrene is herer than for diethylene-clycol or ethylene-glool resins; (3) at 100, hardening (1) in the presence of denzoyl perixide is very slow (2 5000 min, look inhibition by an excess of amine groups; (4) at 100°C, fast get formation sets in (3-5 min) in the presence of benz yl per xide, but hardening is Attrop at C was incomplete. The Brinell hardness remains 1 w; (6) * 4.6 1-4% methyl-ethyl ketone jeroxide with 2-4% NK; at 100°C. 1-2% is in it. benzene hydroperoxide; (6) with both resins, cross linking is injucel to a temperature elevation from 10 to 160°C; (7) shrinkage increases linearly with increasing styrene content; (8) the water resistance of synthesized resins is very high. This confirms the assumption that water-risistant polyester resins are obtained by using argl-containing alcohol components Papers by K. D. Fetrov, G. B. Talikovskiy (ChiKh, -5, Card 3/5

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Synthesis and examination and strength are mentioned. There are a finites, 5 takes, and 5 references. Solviet and 3 nor-5 whet. The two solviet recent references to Emplished Amburuary publications read as ill as R. N. Pross. D. Edelson. 3 Hollymer Suit. 6, 5.1 (1961); L. B. Valuran. Plast Inst. Trans. and J. 12. no. 19. 7 (1961).

Table 4. Hysicomethanical properties of nacioning products of intesting styrede solutions of polyester (1, and (1). Legend. (A) Characteristics; (B) solution of (1); (C) solution of illustrated and precentage of styrede in the initial solution; (t) shrunkage liming hardening, 6; (c) specific gravity. g/cm2; (f) Eminet hardness. As for 1; bending strength. As joint; (f) adults of elasticity to bending, (g) specific injunct strength. As an im; (h) them stability according to 7:cat. C; (i) therm statility according. Martens. C; (k) water absorption for 14 hr. 6; (l) amount of sucstances extracted with according in a Sixhlet apparatus for 1, hr. 3.

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AUTHORS:

Li, P. D., Kaganova, Ye. L., Mikhaylova, Z. V.

TITLE:

Self-extinguishing mactimate, polyeater resina

PERIODICAL:

Plasticheskije canny, no. 5, 1702, 10-15

TEXT: Jelf-extinguishing polyesters were obtained by: (1) special admixtures, (2) chemical modification. By adding Sp₂O₃ (14.5%) and PVC

resins (6.7-7.9%) to Tr=1 (N=1) resin. glass reinforced plastics made therefrom on the tasis of glass fubric $\mathbb{T}_{+}(\mathbb{T}_{+})$, showed worse physical-

mechanical properties, reduced impact strength, increased viscosity and opacity. Modification was based on the principle of introducing chlorine atoms into the polymer molecule. Ethylene glycol was polycondensed with maleic and tetrachlorophthalic and firide pratio 1.1:0.5:0.5) in the melt at 160, 180 and 200°C in inert gas atmosphere. The reaction started at 155°C, the acid number of 35-40 mg KOH/g was reached after 4.5 hr at 200°C, which proves the high reactivity of tetrachlorophthalic anhydride. Polycondensation was a reaction of second order. Its rate constants in

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o/~:/62/000/005/004/01**2** Self-extinguishing unsaturated ... g·mole •min were: that at 10^{10} , they at 100^{2} and 10^{10} , the yield 10^{10} . The brown, solid polycondensate is scrible in styrone, methyl methacrylate and polyester adrylates. A 30% styrene solution of polyethylene glycol maleinate tetrach.oropothalate was best. Metrol-ethyl ketone peroxide combined with cobalt naphtnenate and the redox system p-benzoy, peroxide-dimethyl aniline served as hardeners. Addition of St. 1, increases the fire-resistant quality of the resins and noes not the tage the physical-mechanical properties of glass reinforced that lites produced from them, which correspond to those produces from .1 -1. Moreover, ethyleneslycol was polyconiensed with maleic analydrian and endometaylene nexachloro tetrahydrophthalic anhydriae (I' at a source ratio of 1.1.0.5:0.5 and 180°C. The reaction was here $\sim 1.00~\rm g\cdot mole^{-1}\cdot min^{-1}$. The contensate is a solid, brown resin, easily soluble in styrene, methyl methacrylate, polyester acrylates, etc. A curing agent for maximum nardening is still being sought. Replacement of ethylene group by diethylene glycol and increase of the amount of maleic annyuride improved the mechanical properties of the corresponding glass reinforced textolites (T_1) . 0.6 mole I, 0.4 mole Card 2/3

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Self-extinguishing unsaturated ...

maleic anhydride, C.5 mole ethylene glycol and C.5 mole diethylene glycol with an addition of 2.915 Sb₂0₃ showed 550 kgf/cm/cm² impact resilience, 1750 kgf/cm² static tending strength, 755 kgf/cm² compression strength limit, 139,500 kgf/cm² medulus of clasticity, heat resistance according to limit, 139,500 kgf/cm² medulus of clasticity, heat resistance according to Martens of 74°C, water absorption in 24 hrs of 0.32%. Experiments in the burning tube showed that fireproof glass plastics were obtained: (1) with burning tube showed that fireproof glass plastics were obtained: (1) with PN-1 resin with additions of 11.5-14.5% Sb₂0₃ and chlorine containing compounds (6.4-7.9% Cl); (2) on the basis of resin modified with tetrachloro-phthelic anhydride and with an addition of ~3% Sb₂0₃; (3) with resin modified by means of I (~35% Cl) and slight Sb₂0₃ admixtures. There are 4 figures and 9 tables.

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s/191/63/000/001/003/017 B101/B186

AUTHORS:

Mikhaylova, Z. V., Li, P. Z.

TITLE:

Use of three-component systems to initiate the copolymer-

ization of unsaturated polyesters with styrene

FERIODICAL:

Plasticheskiye massy, no. 1, 1963, 12-18

TEXT: Using Western research data, e.g. those described by J. W.
Cywinski (appl. Plast., 3, no. 2, 56 (1960), Reinf. Plast., 4, no. 6, 6
(1960)), the authors investigated how initiators containing a promotor
or "coaccelerator" as third component affect the copolymerization of
polydiethylene glycol maleinate phthalate with styrene. The redox systems
isopropyl benzene hydroperoxide + cobalt naphthenate (I); methyl ethyl
ketone peroxide + cobalt naphthenate (II); cyclohexanone peroxide + cobalt
naphthenate (III); and benzoyl peroxide + dimethyl aniline (IV) were
studied. Dimethyl aniline (DMA) was added as promotor to the initiators
I, II, and III, and cobalt naphthenate to the system IV. Results: The
gel formation time was reduced to 1/5 - 1/50 by the systems I, II, and
III with promotor for 65% solutions of polyester in styrene. Without
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Use of three-component systems ...

Card 2/3

promotor, gel formation took about 220 min. Hardness increased core quickly in the presence of the promotor. With I + DMA, the Brinell hardness was 17.7 kg/mm2 after 24 hrs, without DMA this constant value was reached after 14 days. Large additions of DMA (0.3%) reduced the . hardness again (about 12 kg/mm2). In the presence of the promotor the heat resistance increased and the fraction extractable with acetone decreased. Optimum was 0.005-0.15 DMA with 15 initiator. In system IV, the addition of cobalt naphthenate did not affect the rate of gel formation and the hardness. Conclusion: DMA can be recommended to improve the effect of I on polyester resins, particularly for the curing of resins containing methyl methacrylate and diacrylates. Quick-curing compositions usuble as glues, cements, and binders for reinforced plastics can be produced with II, III, and promotor. Experiments made below 2000 showed that the promotor eliminates the disturbing effect of low temperatures. Gel formation with II + DMA took 8-11 min at $0-20^{\circ}$ C while no gel formation occurred with II without DMA. Polyester resins cured with promotor at 0-8°C reachel about 12 kg/mm² Brinell hardness and about 140°C Vicat thermostability after 30 days. About 9 kg/mm2 and about 110°C were reached with IV without promotor at these temperatures. Conclusion: Three-

Jise of three-component systems ...

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component systems containing DMA can be used to cure polyester resins at low temperatures. The synergetic effect of systems containing two peroxides as described by Dywinski (ibid.) and J. B. Harrison et al. (Mod. Flast., 39, no. 5, 135 (1/62)) was also studied. In contrast to the data found by these research workers, the curing was not accelerated by systems of I, II, and III plus benzoyl peroxide. There are 11 figures and 4 tables.

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L 9840-63 DPR/EWP(5) /EPF(c) /EMF(E) /BDS/ES(R) -2-AFFTC/ASD/SSD-Pe-4/Pc-4/	•	
Pr-li/Pt-li- 3M/WW/MAY ACCESSION NR: 1P3000396		
AUTHOR: It P. Z.; Mikhaylova, Z. V.; Makarova, Yu. S.		
TITIE: Unsaturated polyesters based on 2,2-bis(chloromethyl)-1,3-propanediol		
SOURCE: Plasticheskiye massy*, no. 5, 1963, 15-19		
TOPIC TAGS 2,2-bis(chloromethyl)=1,3-propanediol, ethylene glycol, diethylene glycol, maleic anhydride, chlorendic anhydride, tetrachlorophthalic anhydride, glycol, maleic anhydride, chlorendic anhydride, tetrachlorophthalic anhydride, glycol, maleic anhydride, chlorendic anhydride, tetrachlorophthalic anhydride, unsaturated polyesters, polycondensation, reactivity polyester solutions, unsaturated polyesters, polycondensation, reactivity polyester solutions, heat-		
unsaturated polyesters, polycondensation, reactivity polyesters polycondensation, reactivity polyesters, heat- glass-fabric reinforced plastics, fire resistance, self-extinguishing, heat- resistance	•	100
ABSTRACT: Fire-resistant polyesters and glass-fabric-reinforced plastics based		
on 2.2-big chloromethy 1 = 1,3-pt openion (CA), or tetra-		
diethylene glycol (EG or DEG), and maleic (MA), children (the polyesters were chlorophthalic (TCPA) anhydride have been prepared. The polyesters were synthesized by polycondensation of the starting materials under an inert gas synthesized by polycondensation of the starting materials under an inert gas synthesized by polycondensation of 38 to 42 mg KOH/g resin was attained. at 180 to 2050 until an acid number of 38 to 42 mg KOH/g resin was attained.	.•	
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L 9840-63 ACCESSION NR: AP3000396

Study of the polycondensation kinetics using the starting materials in various ratios should that the reactivity of BCMPD approaches that of DEG but is lower then that of EU, and that the activity of the anhydrides in reactions with BCMPD decreases in the order MA is greater than CA is greater than TCPA. Polyesters synthesized from BCMPD, EG, DEG, MA, CA, and TCPA in various molar ratios are transparent substances ranging in color from yellow to dark brown, with melting points of 40 to 83C. Polyesters modifield with CA or TCFA and containing DI or DEG are readily soluble in styrens, methyl methacrylate, dimethyl surylate, and other monomers. Polyester-styrene solutions can be cured by various redox systems at room temperature. The products are fire and water resistant and have a Brinell hardness of 11.5 to 22 kg/cm sup 2 and a Martins heat resistance of 64 to 74C. Glass-fabric-reinforced plastics made with the above polyesters and various glass fabrics are self-extinguishing and water resistant and exhibit in most cases a Martens heat resistance greater than 250C. They have at 20C a bending strength of 1436 to 3853 kg/ cm sup 2 and a compressive strength (parallel to the layers) of 570 to 2195 kg/cm sup 2; 77.5 to 100% of this atrength is retained at 80C. Orig.

Card 2/3

LI, P.Z.; MIKHAYLOVA, Z.V.; KAGANOVA, Ye.L.

Curing of unsaturated chlorine-containing polyester resins by means of the oxidation-reduction systems benzoyl peroxide tertiary amines. Plast. massy no.8:13-16 '63. (MIRA 16:8)

(Resins, Synthetic) (Benzoyl peroxide) (Amines)